

**DEPARTMENT OF TRANSPORTATION****DIVISION OF ENGINEERING SERVICES**

Office of Structural Materials

Quality Assurance and Source Inspection



Bay Area Branch  
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Contract #: 04-0120F4Cty: SF/ALA Rte: 80 PM: 13.2/13.9File #: 69.15**SOURCE INSPECTION REPORT****Resident Engineer:** Pursell, Gary**Address:** 333 Burma Road**City:** Oakland, CA 94607**Report No:** SIR-001286**Date Inspected:** 01-Sep-2009**Project Name:** SAS Superstructure**OSM Arrival Time:** 700**Prime Contractor:** American Bridge/Fluor Enterprises, a JV**OSM Departure Time:** 1900**Contractor:** Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island**Location:** Changxing Dao, Shanghai**Quality Control Contact:** William (Bill) Oak**Quality Control Present:** Yes No**Material transfer:** Yes No N/A**Sampled Items:** Yes No N/A**Stock Transfer:** Yes No N/A**OK to Cut:** Yes No N/A**Rebar Test Witness:** Yes No N/A**Delayed/Cancelled:** Yes No N/A**Other:** Coatings Inspection**Bridge No:** 34-0006**Component:** Office, Lift 3 East, OBG 1AW, Lift 3 West, L**Bid Item:** 77, 78, 79**Lot No:** B265**Summary of Items Observed:**

On this date Caltrans Office of Structural Materials (OSM) Quality Assurance (QA) NACE III coating inspector, Mr. James Lumley arrived on site at the Zhenhua Port Machinery Company (ZPMC) facility at Changxing Island in Shanghai, China. The purpose of the coating inspections are to monitor the surface preparation and coating applications for the SAS Bay Bridge project. This QA NACE III coating inspector observed the following:

**Office**

Sort and organize project documentation.

**Lift 3 East**

ZPMC personnel resume washing internal surfaces for repairs and inspection. Personnel washing bottom surfaces from down slope side to up slope side of Lift.

**OBG 1AW**

Performed cursory condition assessment of internal areas, extensive coating repairs required on internal as well as accumulations of cinders, dirt, rust, fines, equipment and other unused and damaged equipment extensive cleaning required prior to thorough inspection assessment.

**Lift 3 West**

Cross Beam Bottom Plate inspection requested prior to final bolt up and assembly. Work rejected as visible rust evident on contact surfaces as well as bolt holes insufficiently coated. Additional inspection was performed on the external weld seams and found non-compliant as feathering process was not performed. ZPMC QC Won Wei was informed during inspection by Caltrans QA Lumley and ABF QC Zhou Qusong repeatedly on previous inspections to ensure feathering was performed of repair areas.

**Lift 2 West**

Repair work consisted of abrasive blasting existing damaged coatings to base metal and an SSPC SP-10 surface

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## SOURCE INSPECTION REPORT

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condition and re-application of prescribed coatings. Surfaces to be in contact with concrete at areas for Counterweight attachments were coated with Intercure 200HS areas which will be steel to steel contact Suspender Brackets were coated with Interzinc 22.

### Lift 4 West

Repairs consisting of re-abrasive blasting to base metal and an SSPC SP-10 condition and edge feathering of remaining previously applied coating was performed on external weld seam areas. Minor grinding was also performed on bottom surface of bottom plate to remove laminations and re-blasting occurred followed by application of Interzinc 22. Profile amplitude was 76, 78, 78um.

### Lift 2 East

Weld seam repairs were performed on external damaged areas at Panel Points #13 and 18. Repairs consisted of re-abrasive blasting to base metal and an SSPC SP-10 condition and re-application of Interzinc 22 after the edges of the existing coatings were feathered. Profile amplitude was 75, 78, & 80um.

Note: All inspections were performed jointly with ABF & ZPMC QA/QC representatives and Caltrans QA Lumley when achievable. International Protective Coatings technical service representative were available for inspections and consultation.

### Summary of Conversations:

No relevant conversations on this date.

### Comments

This report is for the purpose of determining conformance with the contract documents and is not for the purpose of making repair or fit for purpose recommendations. Should you require recommendations concerning repairs or remedial efforts please contact Eric Tsang. (858) 699-9549, who represents the Office of Structural Materials for your project.

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<b>Inspected By:</b>	Lumley, James	Quality Assurance Inspector
<b>Reviewed By:</b>	Carreon, Albert	QA Reviewer

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